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PATENT & TRADEMARK OFFICE

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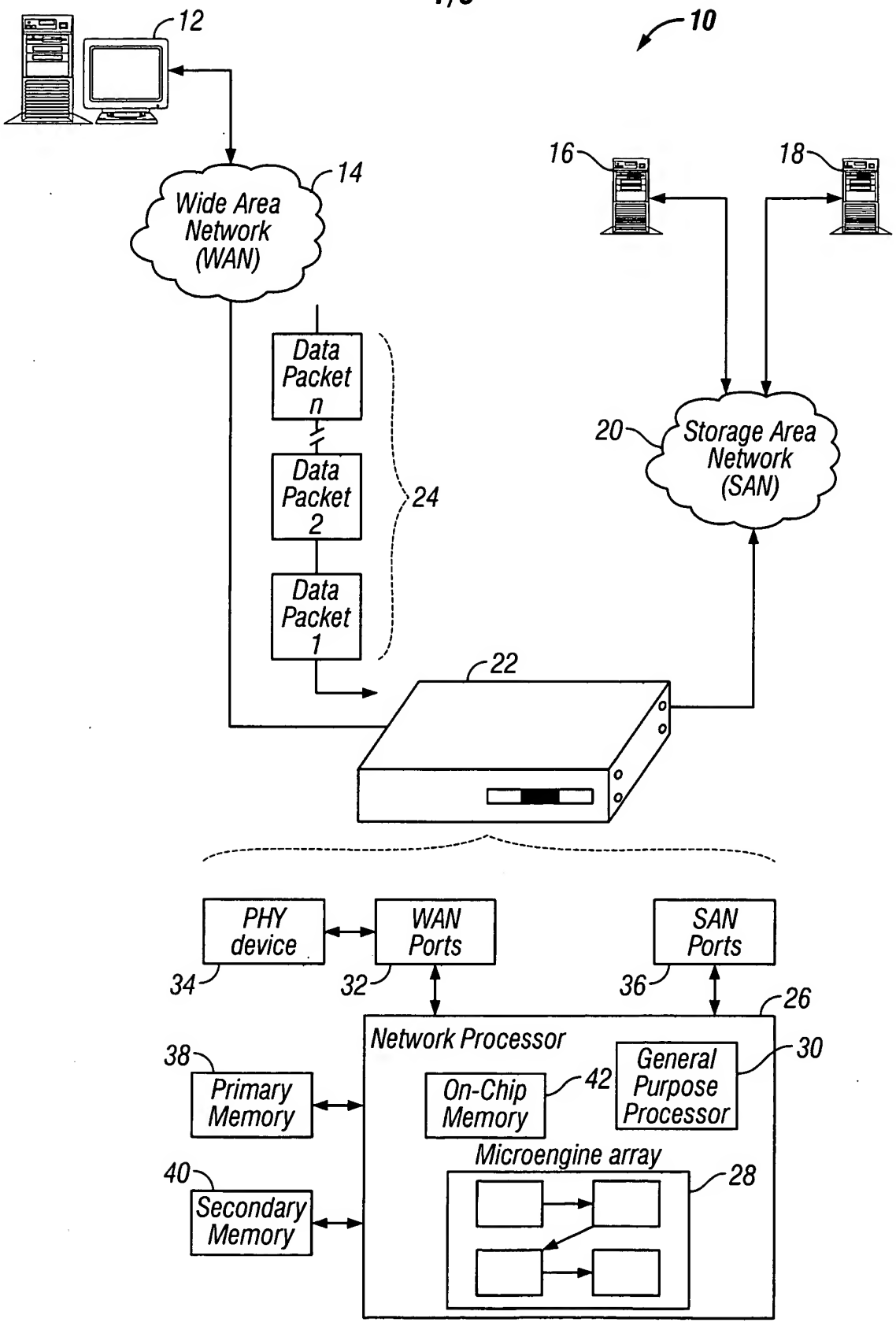

FIG. 1

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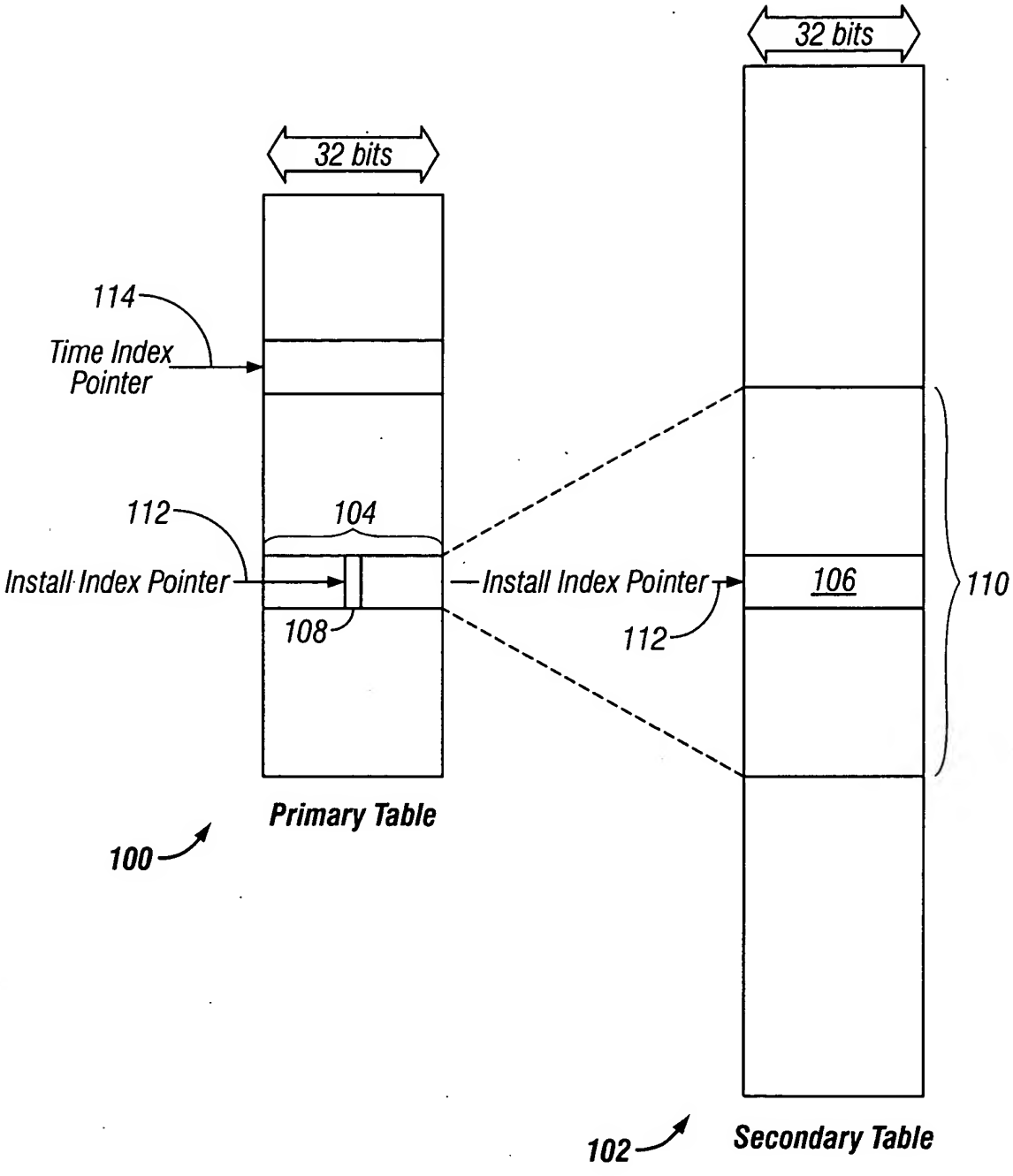
32 bits
32 bits
114
Time Index Pointer
112
104
Install Index Pointer
108
Install Index Pointer
112
106
110
Primary Table
100
102
Secondary Table

FIG. 2

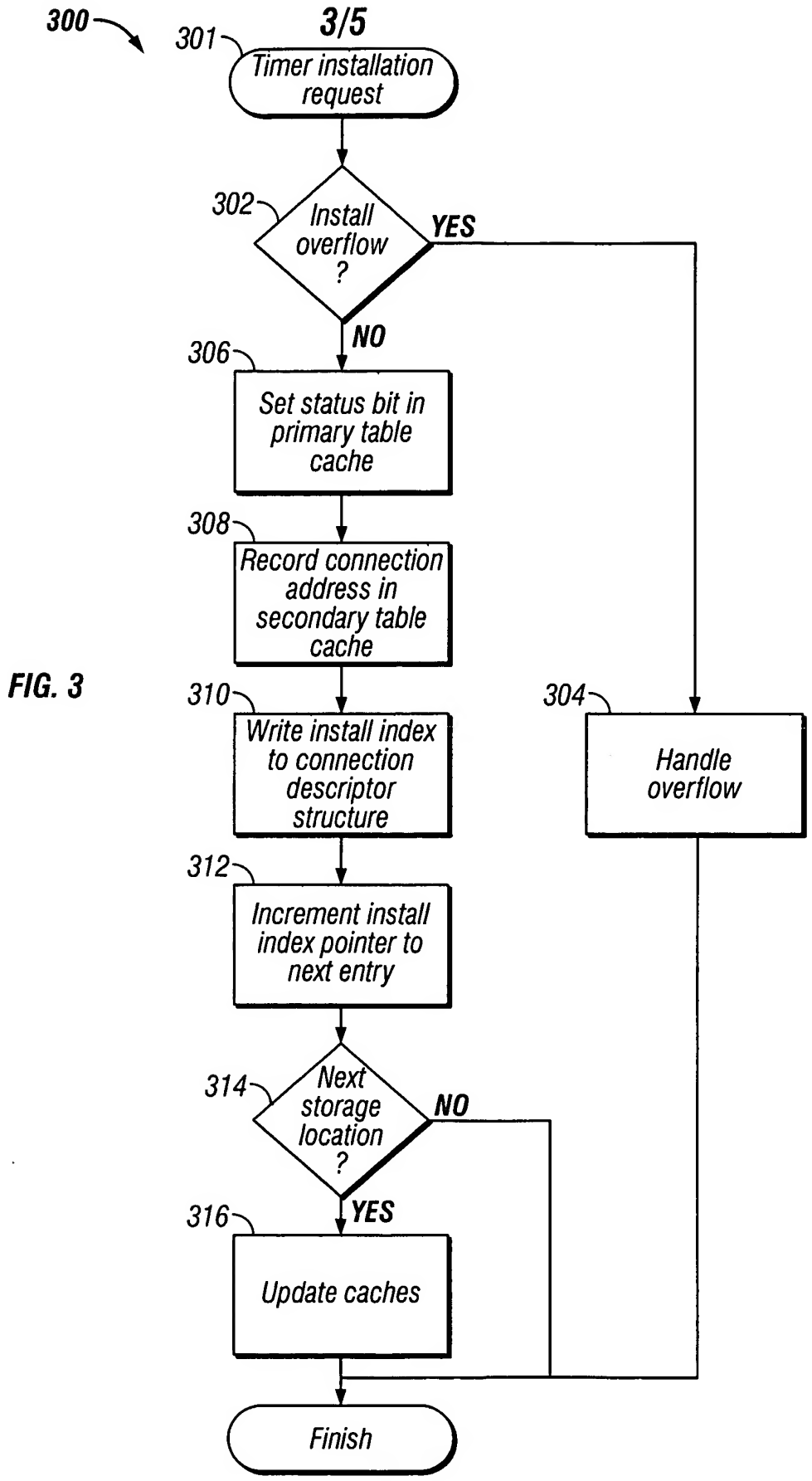
300
301
Timer installation request
302
Install overflow ?
YES
NO
306
Set status bit in primary table cache
308
Record connection address in secondary table cache
310
Write install index to connection descriptor structure
312
Increment install index pointer to next entry
314
Next storage location ?
NO
YES
316
Update caches
304
Handle overflow
Finish

FIG. 3

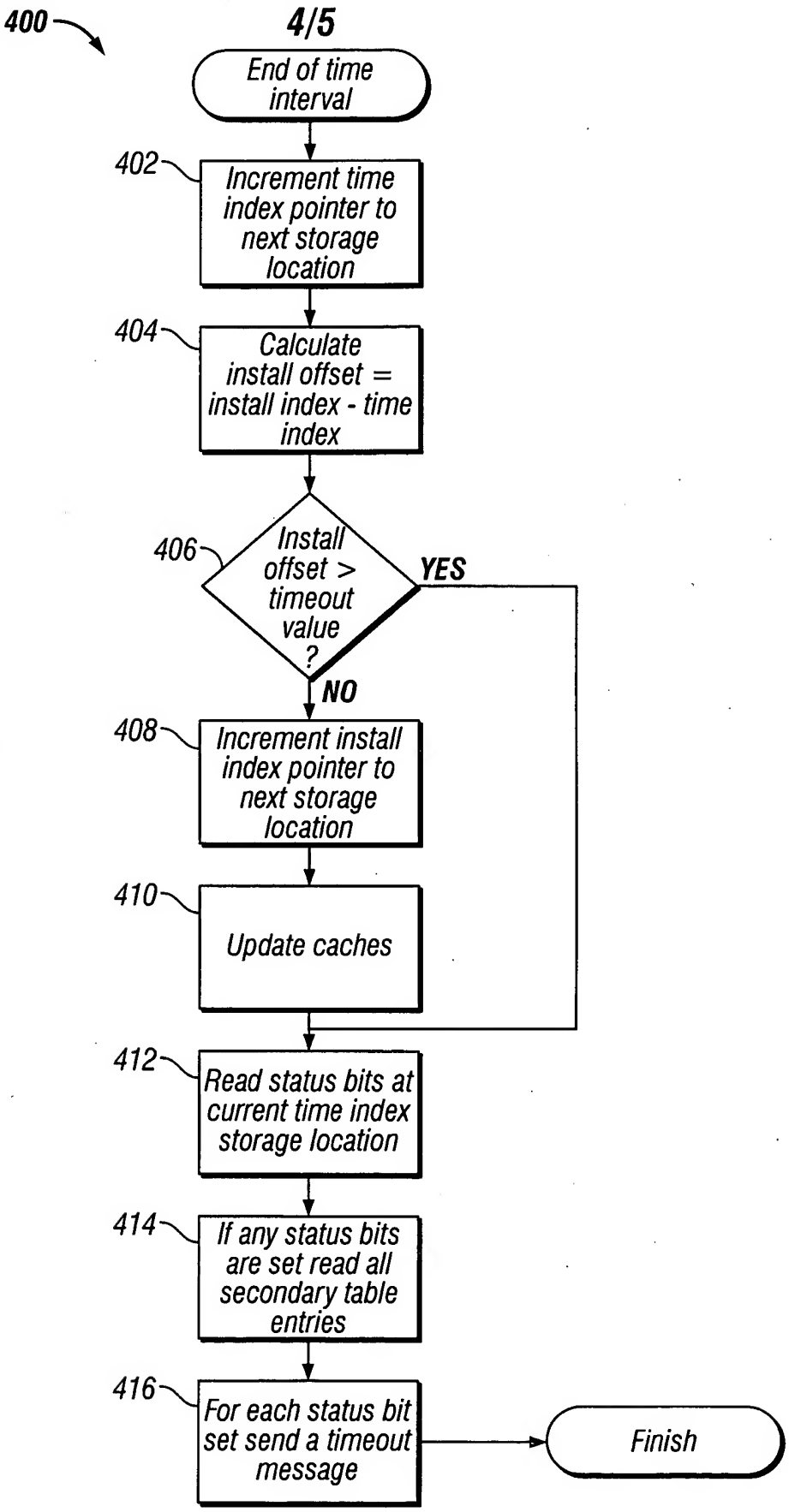
400
End of time interval
402
Increment time index pointer to next storage location
404
Calculate install offset = install index - time index
406
Install offset > timeout value ?
YES
NO
408
Increment install index pointer to next storage location
410
Update caches
412
Read status bits at current time index storage location
414
If any status bits are set read all secondary table entries
416
For each status bit set send a timeout message
Finish

FIG. 4

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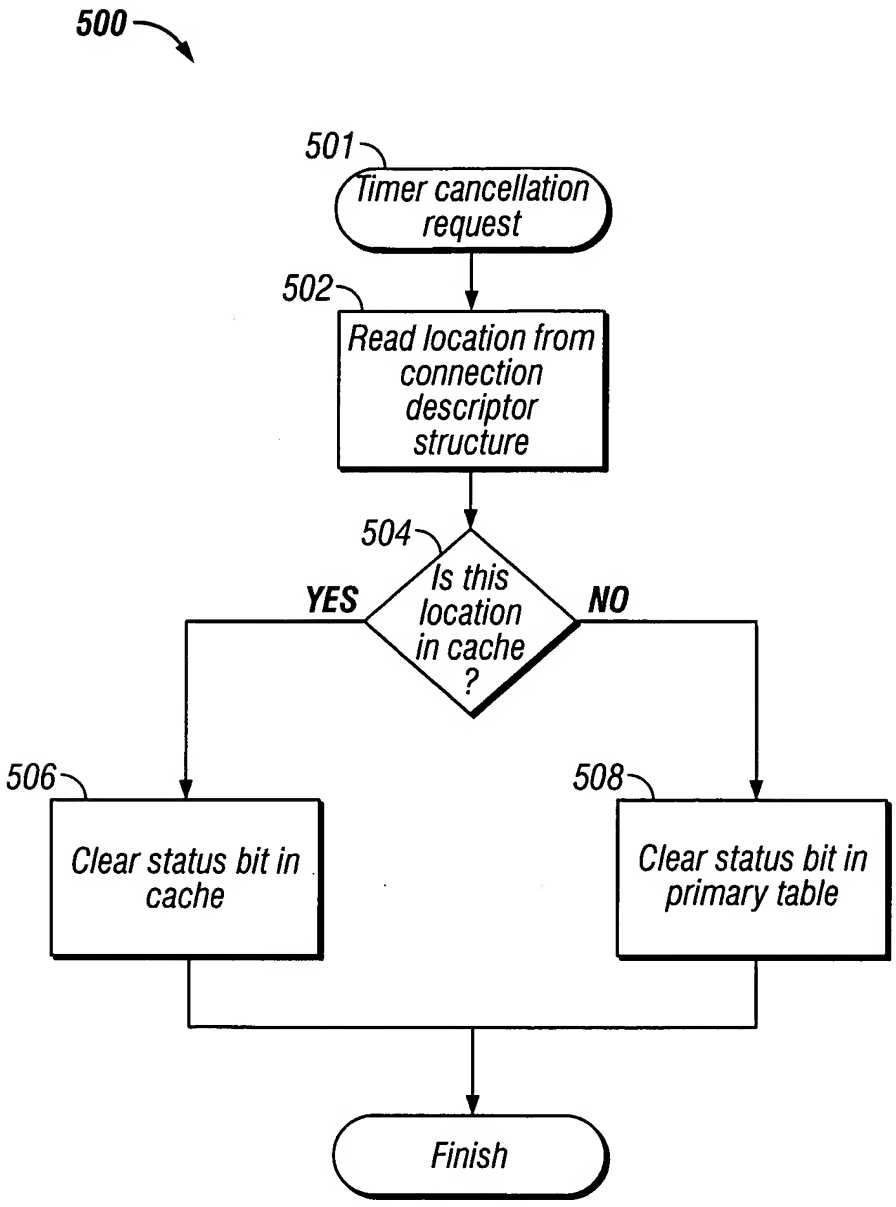
500
501
Timer cancellation request
502
Read location from connection descriptor structure
504
Is this location in cache ?
YES
NO
506
Clear status bit in cache
508
Clear status bit in primary table
Finish

FIG. 5